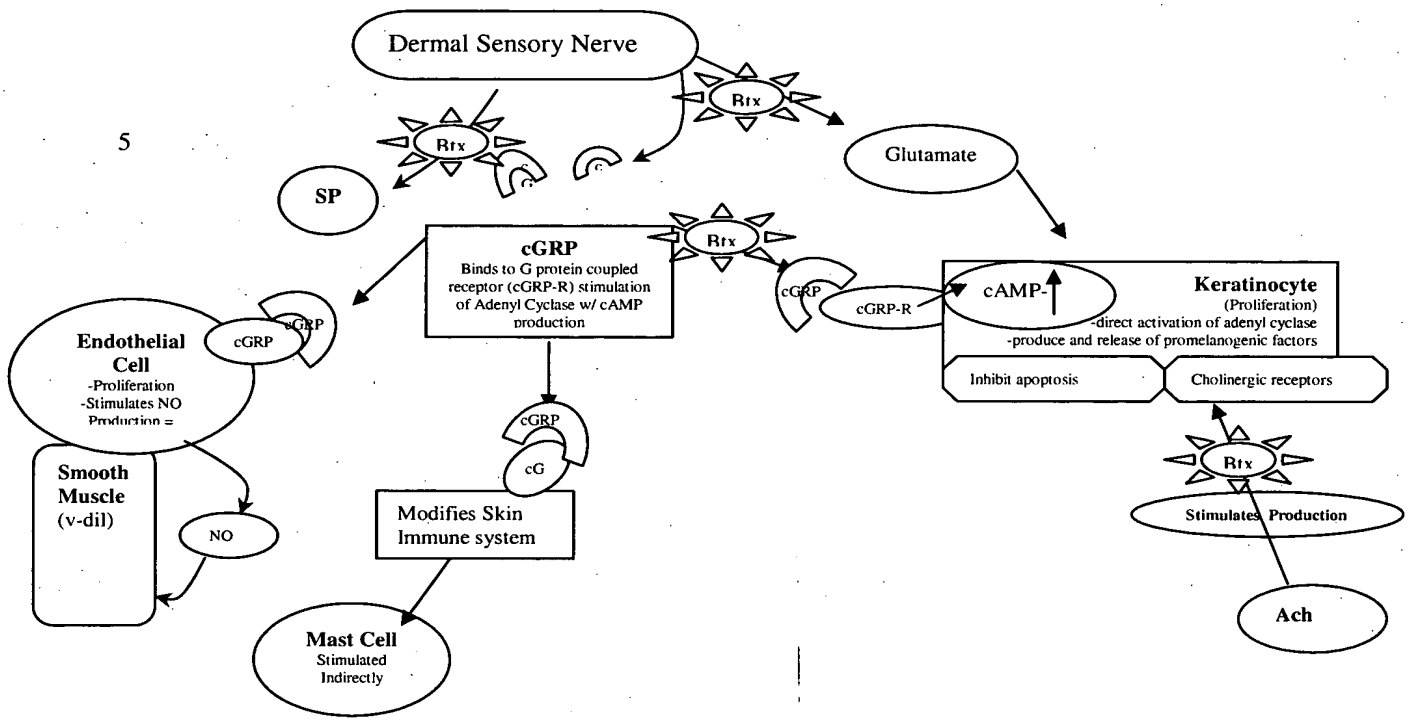
Figure 1


Dermal Sensory Nerve
Rtx
Rtx
Glutamate
SP
cGRP
Binds to G protein coupled receptor (cGRP-R) stimulation of Adenyl Cyclase w/ cAMP production
Rtx
cGRP
cGRP-R
cAMP-
Keratinocyte
(Proliferation)
-direct activation of adenyl cyclase
-produce and release of promelanogenic factors
Inhibit apoptosis
Cholinergic receptors
Endothelial Cell
-Proliferation
-Stimulates NO
cGRP
cGRP
Smooth Muscle
(v-dil)
NO
cGRP
cG
Modifies Skin Immune system
Rtx
Stimulates Production
Ach
Mast Cell
Stimulated Indirectly